

# ABSTRACT

A printed circuit board (PCB) includes metallization portions that are enshrouded with a carbon-based cladding. The carbon-based cladding reduces noise coupling between, for example, signal lines within the metallization pattern. In addition, in at least one embodiment, the carbon-based cladding is used to implement one or more electrical resistors (e.g., pull-up and/or pull-down resistors) within the PCB. The carbon-based cladding can also be used to decrease the propagation delay of the signal lines of the PCB.

"Express Mail" mailing label number: EL709303538US

Date of Deposit: December 7, 2000

This paper or fee is being deposited on the date indicated above with the United States Postal Service pursuant to 37 CFR 1.10, and is addressed to the Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.